

ABSTRACT

Stereo sound signals are reproduced directly from
loudspeakers (SP(L), SP(R)). By using a sum signal and a
5 difference signal of the stereo sound signals as a reference
signal, and according to a cross spectrum calculation of the
reference signal with a microphone-collected sound signal,
calculation is performed to obtain transfer functions of four
sound transfer systems between the loudspeakers (SP(L),
10 SP(R)) and microphones (MC(L), MC(R)). The transfer
functions obtained are subjected to inverse Fourier transform
to obtain impulse responses, which are set in filter means
(40-1 to 40-4) to create echo cancel signals and perform echo
canceling. This solves the problem of an indefinite
15 coefficient in the echo cancel technique of a multi-channel
sound signal.